

Types of Secondary Alterations in Sands and
Gravels of Irkutsk Basin Coal Measures
and Their Possible Relationship with
Underground Water, by V. I. Kaporulin,
10pp.

RUSSIAN, per, Izvestiya Akademii Nauk,
Vol 27, 1962, No 3, pp 72-87.

323,253

Sci - Earth Sciences
Apr 67

Certain Physico-Chemical Constants for
Heavy Liquids Used in the Study of
Minerals, by M. Ya. Kats, L. V. Belyaeva,
12pp.

RUSSIAN, per, Izvestiya Akademii Nauk,
Vol 27, 1962, No 3, pp 100-113.

323,273

Sci - Earth Sciences
Apr 67

Tectonics of the Junction Zone Between the
Central Pamirs Trough and North Pamirs
Uplift, by S. V. Ruzhentsov, 8pp.
RUSSIAN, per, Izvestiya Akademii Nauk,
Vol 27, 1962, No 7, pp 9-18

323,264

Sci - Earth Sciences
Apr 67

Facies, Genetic Types, and Formations,
by G. F. Krasheninnikov, 7pp.
RUSSIAN, per, Izvestiya Akademiyi Nauk,
Vol 27, 1962, No 8, pp 3-13.

323,254

Sci - Earth Sciences
Apr 67

Probable Structure of Archean Basement in
the Southeast of East Siberia, by N. V.
Frolova, 5pp.
RUSSIAN, per, Izvestiya Akademii Nauk,
Vol 27, 1962, No 8, pp 14-20.

323,249

Sci - Earth Sciences
Apr 67

Aspects of the Evolution of Magmatic Melts
in the Crystallization of Hybrid Magmas,
as Illustrated by Tertiary Granitic Rocks
of Kamchatka, by K. V. Prokhorov, 13pp.
RUSSIAN, per, Izvestiya Akademiyi Nauk,
Vol 27, 1962, No 8, pp 60-77.

323,262

Sci - Earth Sciences
Apr 67

Distribution of Gallium in Rocks and
Minerals: Review of Mono. Gallium by O. V.
Vershkovskaya, V. S. Krasnova, V. S.
Saltykova, and A. E. Pervukhina, Moscow.
RUSSIAN, per, Izvestiya Akademiyi Nauk,
Vol 27, 1962, No 8, pp 115-120

323,258

Sci - Earth Sciences
Apr 67

Progress of Geological Studies at the
Academy of Sciences of the USSR, by D. I.
Shcherbakov, 6pp.
RUSSIAN, per, Izvestiya Akademiyi Nauk,
Vol 27, 1962, No 9, pp 3-11.

323,266

Sci - Earth Sciences
Apr 67

Material Composition Changes in the Greisen-
ization of Kounrad Massif Granites, by
F. V. Chukhrov, L. B. Shlain, 15pp.
RUSSIAN, per, Izvestiya Akademiyi Nauk,
Vol 27, 1962, No 9, pp 27-47.

323,247

Sci - Earth Sciences
Apr 67

Formation Conditions and Distinctive
Features of Tectonic Breccias in the
Karatau Range, Middle Paleozoic Carbonate
Section, by V. V. Ez, D. E. Gaf, 11pp.
RUSSIAN, per, Izvestiya Akademiyi Nauk,
Vol 27, 1962, No 9, pp 75-89.

323,248

Sci - Earth Sciences
Apr 67

Distribution of Clay Minerals in Paleozoic
and Mesozoic Rocks, In Connection with
Their Origin, by V. R. Vlodarskaya, 5pp
RUSSIAN, per, Izvestiya Akademiyi Nauk,
Vol 27, 1962, No 9, pp 90-96.

323,269

Sci - Earth Sciences
Apr 67

Investigation of the Solubility of Oxygen in
Molten Iron Silicon Alloys at Atmospheric
Pressure and Under Vacuum, by Hsu Tseng Chi,
A. Yu. Polyakov, A. M. Samarin.

RUSSIAN, per, Iz Akad. Nauk SSSR, Moscow, 1963,
pp 10-13.
BISI 4120

278,630

SciANN
Apr 65

Bulletin of the Main Astronomical Observatory.
RUSSIAN, per, Iz Ak Nauk SSSR, Vol V, No 1, 1964.
NASA TT P-245

Sci-ES/A
May 65

280,172

PRESENT STATE AND FUTURE TREND OF THE DEVELOPMENT
OF GEOLOGICAL SCIENCES IN THE USSR, BY D. XX I.
SHCHERBAKOV, 16 PP.

RUSSIAN, PER , IZVESTIYA AK NAUK SSSR, NO 1,
1963, PP 9-18.

JPRS 17983

SCI - GEOPHYS

MAR 63

224,350

R-6752-D

7 Mar 66

Approximate solution of a laminar boundary layer problem
in compressible gas on a blunted plate

By: K. G. Petrosyan

From: IZV AKAD NAUK SSSR 16 #6, 1963 pp 27-33 (7 pp)

Russian - est for wds;

Type 1 camera ready and 1 carbon copy.

Document may lbe cut.

ALGORITHMS ASSOCIATED WITH SYSTEMS OF WORDS,
BY A. A. MARKOV, 103 PP.

RUSSIAN, PER, IZVESTIYA AKADEMII NAUK SSSR,
VOL XXVII, NO 1, 1963, PP L01-160.

JPRS 19611

SCI - MATH & DATA PROC

JUN 63

232,362

AN IMPORTANT STAGE IN THE DEVELOPMENT OF BIOLOGICAL
SCIENCE, BY N. M. SISAKYAN, 7 PP.

RUSSIAN, PER, IZVESTIYA AKADEMII NAUD SSR, NO 3, L⁹63,
PP 337-347.

JPRS 20943

B~~I~~L-MED
SEP 63

343,695

MEDICAL AND BIOLOGICAL RESEARCH ON THE FACTORS IN
SPACE FLIGHT, BY YU. M. VOLYNKIN, P. P. SAKSONOV,
17 PP.

RUSSIAN, PER, IZVESTIYA AKADEMII NAUK SSSR, NO 3,
1963, PP 405-413.

JPRS 20943

BIO L-MED
SEP 63

343,696

On the Interdepartmental Commission on Aerial Photo
Survey, by V. I. Augovich, 2 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, No 5, 1963, p 146.
(Call No QE500 I99 1963 No 5 Eng Tr)

Army Map Service

USSR
Geog
Sci - Aero
Nov 63

Biogeochemistry of Sulfur, by S. I. Kuznetsov, 18 pp.

RUSSIAN, per, Izvest Ak Nauk SSSR, No 5, 1963, pp 668-680.

JPRS 22672

Sci-BChem
Jan 64

246, 551

NEW PROSPECTS IN SOVIET SCIENCE, 5 PP

RUSSIAN, PER, IZVEST AK NAUK SSSR, NO 9, 1963,
PP 3-5.

JPRS 22389

SCI-MISC
DEC 63

244,790

Biological Investigations at the Academy of Sciences
of the USSR, by V. G. Kocherezhkin, 18 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, No 3, May, Jun 1964,
pp 482-489.
JPRS 25559

Sci - B & M Sci
Aug 64

263,437

Dynamics of Discrete Automatic Control Systems
Containing Conservative or Oscillatory Elements, by
S.M. Fedorov.

RUSSIAN, per ~~izv.~~ izv. Akad. Nauk. SSSR, No. 5, 1964,
pp 93-99

NLL/6015.49 1965 (9323)

Sci -

Sep 67

340-025

Problems of Molecular Biology, by V. G.
Kocherezhakin, 12 pp.
RUSSIAN, per, Izvestiya Akademii Nauk USSR,
No 6, 1964, pp 936-941.
JPRS 29091

USSR
Sci-Biol& Med Sci
Mar 65

276,264

A Creative Ray, by N. Rasov, V. Losh-
kovtsev, 6 pp. *declassified*
RUSSIAN, per, Izvestiya, July 12, 1964,
P. 5. 9697547
PTD-TT-659121

Sci-Nucl Sci
Aug 65

287,054

Method of Accounting For the Self-cooling Effect of Rotating
Machine Rotors, by I.F. Filippov.

RUSSIAN, per, Izv. Akad. Nauk SSSR, No 9, 1964, pp 53-59.
(NLL/9022.03 1965 (3659))

Sci -
Sep 67

340,024

On the Determination of a Differential Equation
by Two of its Spectra, by B. M. Levitan.
RUSSIAN, par, Izvestiya Akad. Nauk SSSR, Vol 28
1964, pp 63-78.
*NASA TT F 13,297

sci/math
oct 70

Causes for the Broadening of Hydrogen Lines
in the Solar Spectrum, by A. B. Severny.
RUSSIAN, per, Izv AN SSSR, Astrofiz Obser.
Vol 16, 1956, pp 54-66.
CIA X-7018

May 69

382,349

Sharp-Surface Symmetrical Shapes of Nuclear
Equilibrium, by V. M. Strutinskiy, N. Ya.
Lyashchenko, et al.

RUSSIAN, per, Izvest Akad Nauk-SFSR Ordona
Lenina Institut Atomnoi Energii, 1962, 40 pp.

ABX-Tr-5493

Sci - Nucl Sci

Apr 63

226,776

61-16821

Ravich, M. B. and Zakharov, B. A.
CATALYTIC COMBUSTION ON REFRACTORY SUR-
FACES. [1961] 5p.
Order from OTS or SLA \$1.10 61-16821

Condensed trans. of [Akademiya Nauk SSSR].
Energeticheskii Institut. Izvestiya, 1940, v. 9.
p. 23-29.

DESCRIPTORS: *Refractory materials, Quartz,
Iron compounds, Nickel compounds, Chromium
compounds, Oxides, Combustion, Catalysis.

This work established that quartz packing accelerates
the combustion, especially at temperatures below
700° and that fire clay grog is more active than
quartz at temperatures higher than 700°, but at lower
temperatures the relationship is reversed. Oxides of
nickel and iron exert a higher promoting effect than
vanadium oxides and permit a lowering of the
(Chemistry--Physical, TT, v. 8, no. 12) (over)

I. Ravich, M. B.
II. Zakharov, B. A.

Office of Technical Services

Pressure and Erosion in Region of
Tear-Off Cavitation of a Guide Profile,
by K. K. Shal'nev.
RUSSIAN, per, Iz An SSSR, Energetika i Transport,
No 5, 1954, pp 111-120.
*FTD-MT-65-557

Sci-Energ
Nov 65

Thickness of the Turbulent Mixing Zone on
the Boundary of Two Streams of Gases of
Different Velocity and Density, by
O. V. Yakovlevskiy. 6 pp.
RUSSIAN, per, Akademiya Nauk SSSR, Izvestiya.
energetika i Transport, No 10, 1958,
pp 153-155. 9700068
FTL-TT-65-1928

Sci/Physics
May 66

299,476
~~299,531~~

Approximation Theory of Heat Transfer in Developed
Bubble Boiling, by D. A. Labuntsov, 20 pp.
RUSSIAN, per, Iz Ak Nauk, Energ i Trans, No 1, 1963,
pp 58-71. 9220563
AEC-Tr-6286

Sci-Phys
Mar 64

252,828

Self-Centering and Equilibrium of a High-Speed Compressor, by A. S. Kel'zon, Z. V. Troitskaya, 8 p.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Otd. Tekhn. Nauk, Energetika i Transport, No 3, 1963, pp 51-57.
US PSTC SI-5-75-424

Sci-Engr
Feb 66

294,390

Agency: U.S. Army Terrestrial Sciences Center R-10204-D
P.O. no. 69-T-8 17 March 69

Title: Massobshen pri kondensatsii para iz dvizh-
ushchiesia paragazovoi sneni, -y-i-----fically

Authors: ¹⁹⁴⁸IA. M. Vizely & I.L. Kostinski

Source: Izvestia Akad. Nauk SSSR, Energetika i Transport,
No. 4, 1963

Language: Russian

၆၁၃

Special instructions: Please translate & type one copy.

XX SEE TITLE OVER

Monte-Carlo Method in the Analysis of the
Reliability of Electric Power Plants, by
U. B. Guk, 9 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Energetika i
Transport, No 4, 1963, pp 443-447.

~~XX~~CIA/FDD XX-1602
- NO FOREIGN DISSEM

Sci
Oct 64
USIB Internal Use Only

268,095

Development and Investigation of Air Cooling
Systems of Gas Turbine Elements, by I. T. Shvets,
E. P. Dyban, 19 pp.

RUSSIAN, per, Izv Ak Nauk SSSR, Energetika i ~~T~~
Transport, No 6, 1963, pp 747-758.

CIA/FDD XX-1605
NO FOREIGN DISSEM

Sci - Engr
Oct 64
USIB Internal Use Only

268,338

Vortex Effects in a Turbine Stage, by
M. Ye. Deych and Ye. Ye. Likhertzak, 12 pp.
RUSSIAN, per, AN SSSR. Izvestiya. Energetika
1 Transport, No 1, 1964, pp 109-115. P100098668-V
FTD-MT-67-47

Sci-Prop & Fuels
May 68

356,252

The Solubility of Calcium Sulphate in High
Temperature and Supercritical Steam, by
O. I. Martynova, et al.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR,
Energetika i Transport, No 3, 1965,
pp 132-136. 1964

SAEC 2368

ABRE - L 1058 P911027867

Sci/Physics
May 66

Magnetohydrodynamic Phenomena in a Layer of
Conductive Liquid Between Rotor and Stator of an
Asynchronous Motor, by G. S. Tamoyan, 13 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Energetika i
Transport, No 3, 1964, pp 370-377. 9696384
FTD-TT-65-173

Sci - Elec
Apr 65

277,830

On the Substantiation of a Method for
the Calculation of a Screened Asynchronous
Electric Motor With Conductive Liquid
in Gap, by A. V. Ivanov-Sholenskiy,
G. S. Tanyan, 14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Energetika
i Transport, No 4, 1964, pp 466-473.

9695386

FTD-TT-65-174

Sci - Elec

Apr 65

277,855

The Method of Optimization of the Development
of Power Systems with the Use of Mathematical
Models, by L. A. Malent'yev and Yu. P. Syrov,
27 pp.

RUSSIAN, per, AN SSSR. Izvestiya. Energetika i
Transport, No 5, 1964, pp 531-542.

P100107668-V

FTD-MT-67-48

Sci-Electronics & Elec Engr
July 68

350,805

Effect of Thermal Resistance of Coatings on the
Thermal Radiation Characteristics of Star Like
Radiators, by Yu. A. Vasanov. 12 pp.
RUSSIAN, per, Izvestiya Ak Nauk SSSR. Energetika
i Transport, No 6, 1964, pp 743-749. P100027666
FTD-TT-65-1389

Mech, Indust, Civil &
Marine Engr.
Sep 66

309,424

Oscillations of a Weakly Heterogeneous Plasma,
by V. P. Silin, 20 pp.

RUSSIAN, per, Izvest Akad Nauk SSSR Institut Fiz
Ivan P. M. Lobedeva, 1962, 9207676.

AEC-UCRL-Tr-945(L)

Sci - Phys

Jun 63

231,916

Theory of Transfer Processes in a Plasma Across
a Magnetic Field, by V. P. Silin.

RUSSIAN, per, Izvest Ak Nauk SSSR, Instit Fiz
imeni P. N. Lebedeva, 1962, 13 pp.

AEC/UCRL-Tr-869(L)

Sci - Phys

Apr 63

326,783

/

The Productivity of the Barents Sea Littoral Zone, by
M. M. Kamshilov.
RUSSIAN, per, Izvestiya Karel'dkogo i Kol'skogo Filialov
AN SSSR, No 1, 1957, pp 84-89.
*Dept of Navy NOO Trans 547

July 71

Spectrophotometry of Lunar Formations, by
A. E. Sergeyeva. 18 pp.
RUSSIAN, bk, Akademiya Nauk SSSR Komissiya Po
Fiziki Planet Izvestiya, 1959, pp 59-66. P200170068
RSIC-797

Sci/Astron
Aug 68

363,062

A Photoelectric Method of Measuring the
Strength and Direction of A Solar
Magnetic Field, by V. E. Stepanov,
A. B. Severynyi, 41p.
RUSSIAN, par, Izvestiya Akademii
Nauk SSSR. Krymskaya Astrofizicheskaya
Observatoriya, Vol 28, No 1 1962, pp 166-193.
OTS 11-65-60332

333, 578

Sci
Jul 67

Observations of Thermal Radiation of the Moon,
by N. P. Yesaulov, N. S. Nikulin, 11 pp.
RUSSIAN, per. AN SSSR. Krymskaya Astrofizicheskaya
Observatoriya. Izvestiya, Vol 30, 1963, pp 273-
283. FID0094168-V
FTD-MT-67-25

Sci-Phys
May 68

356,295

On the Nightglow of Venus, by N. A. Kozyrev.
RUSSIAN, per Izvestiya, Akademiya Nauk SSSR.
Krymskaya Astrofizicheskaya Observatoriya.,
Vol 6, 1963, pp 431-6.
SLA TT-66-11072

330, 794

Sci - Astron
Jul 67

The Theory of Ship Resistance During Movement in
Seas, by M. D. Khaskind, 17 pp.

RUSSIAN, per, Izvestiya Akademiy Nauk SSSR,
Mekhanika i Mashinostroyeniye, No 2, 1959,
pp 46-56.

Dept of Navy NITC Trans 3080

Sci/Mech

Aug 70

Experimental Investigation of Anisotropy of
Fiberglass-Reinforced Plastics, by
Ya. S. Sidorin. 10 pp.
RUSSIAN, per, Izv AN SSSR Mekh i Mash, No 3,
1964, pp 122-126.
AIR/FID/HT-23-208-70

Sci-Mech
Sep 70

Linear Theory of Unsteady Gas Motion Under the
Action of Nonpotential External Forces, by
V. E. Baskin.

RUSSIAN, per, Izvestiya Akademii Nauk SSSR
Mekhanika Zhidkosti i Gaza, Jul-Aug, pp 58-65.

*NASH TT F 13,052

sci.mechan engr
may 70

A Method of Formulating the Boundary Conditions
in Problems of Viscous Fluid Flow, by
T. S. Varzhanskaya, 5 pp.
RUSSIAN, per, Izv Akad Nauk SSSR, Mekh Zhid i Gaza,
No 3, 1963, pp 142-144.
AEC/SC-~~70~~-4003-70
JR

Sci/Phy
Mar 70

402,583

1963-1964
IZVESTIYA AN SSSR, METALLURGIYA I
GORNOE DELO
(Russian Metallurgy and Mining)
Sequel to "Izvestiya AN SSSR OTN,
Metallurgiya i Toplivo"
Translation begins with 1963 up to
and including 1964
Order from: Scientific Information
Consultants, Ltd.,
661 Finchley Road,
London N.W.2
£ 40.00/year U.K.
* 100.00/year elsewhere
£ 10.00 single issues U.K.
£ 25.00 single issues elsewhere
£ 6.00 single article reprints U.K.
* 15.00 single article reprints elsewhere
From 1965 see: "IZVESTIYA AN SSSR, METALL"

Russ

Reduction of Melten Iron Oxide by Carbon,
by S. V. Shavrin,
RUSSIAN, per. Izv. Akad. Nauk SSSR Met. i gorn
delo, 1964, pp 26-31.
BISI 9145

Jul 71

Structure and Thermophysical Properties of Surface
Crust Formed on Industrial Aluminum Reduction Cells,
by A. A. Vol'berg.
RUSSIAN, per. Izv Ak Nauk SSSR, Met i Gorn Belo.
No 5, 1964, pp 45-56.
ATS RJ-5077

Sci-Mat
July 69

385,482

Spectral Emissivity of some Technical Alloys
in the Infrared Spectrum Range,
by V. V. Lebedeva.
RUSSIAN, per, Iz Ak Nauk SSSR, Metalli Gornoye
Delo, No 4, 1964, pp 143-146.
*FTD-TT-65-1796

Sci - M/M
Nov 65

Self-diffusion of Nb in Single Crystal and
Liquid Specimens, by V. D. Lyubimov, et al.
RUSSIAN, per, Izvest. Akad. Nauk SSSR Met.
i. Gornoe Delo, no. 5, 1964, pp. 137-141.
*CFSTI TT 70-57044

Sci/phys
Feb 70

SPECIALIZATION IN THE MACHINE BUILDING INDUSTRY
IN MOLDAVIA, BY S. I. KIRKA, 12 PP.

RUSSIAN, PER, IZ AK NAUK MOLDAVSKOY SSR, NO 2,
1962, PP 13-22.

JPRS 16803

USSR
ECON
APR 63

228,68

On the Problem of Parasite Fauna of the
Fishes of the Lower Dnestr, by E. P.
Shumilo.
RUSSIAN, per, Izvestiya Akad Nauk SSSR
Moldavsk. Filiala, Vol 8, 1958, pp 31-39.
NLL RRS 2843

U. 53

Sci-B&M
Sept 66

309,589

Electrophysiological Characteristics
of Plant Stimuli, by I. I. Gumar, A.
M. Sinyukhin, 21p.
RUSSIAN, par, Izvestiya, Moskovskaya
Sek'skikhovnaistvennaya Akademiya,
No 4(29), pp 7-22.
NRC C-6133

333, 525

Sol
Jul 67

Research in the Field of Refractory and
Hard Compounds, by G. A. Meyerson.
RUSSIAN, per, Iz AN SSSR, Neorgamicheskiye
Materialy, Vol I, No 1, pp 16-28, 1964.

9230474

AEC-Tr-6616

Sci-M.M

Dec 65

295,333

Dependence of the frequency of mutation on the
rearrangement in Escherichia coli upon X-ray
dosage, by M. L. Bel'govskiy, 14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Biol Nauk, 1939,
pp 159-170. 9089772

OTS 61-11434
PL-480

Sci - Biol

Aug 62

FBI 525

107,542

A Cytological Study of the Breaks at the White Locus
of the X-Chromosome in Drosophila Melanogaster, by
A. A. Prokof'yeva-Bel'govskaya, 13 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Biol Nauk, No 2,
1939, pp 215-227. 9089771

OIB 61-11483
PL-480

Sci - Biol

207, 535

Aug 62

PST 526

Book Review of the Soviet Encyclopedia of Zoology
Mammals, by A. A. Pukhoviyev-Bol'govskiy, 11 pp.

REVIEW, per, Iz Ak Nauk SSSR, Otdel Biol Nauk, 1959,
pp 349-361. 9089775

OTS 61-11482
PL-480

Sci - Biol

207, 540

Aug 62

REF 327

Investigations in the Inner Park of the ...
The ... Melnitskaya, by A. A. ...
Melnitskaya, 8 pp.

NIKOLAI, per, Iz Ak Nauk SSSR, Otdel Biolog Nauk,
1982, pp 362-370. ~~9089776~~

OTS 61-11481
PL-480

Sol - Biol

207,541

Aug 62

PSA 528

On the Possibility of Induction of Cartilage
Formation in Vitro, by L. F. Berezkina, 12 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Biol,
Vol II, 1943, pp 67-73. CIA 9012917

NIE Tr 10-27
53,508

Sci - Medicine
Oct 57

The Process of Decomposition of Macrophytes
of Freshwater Lakes and the Role of Their
Residues in the Formation of Lacustrine
Coze Deposits, by N. A. Messineva and
A. I. Gorbunova,
RUSSIAN, per, Izvestiya Ak Nauk SSSR, Otdel.
biol. Nauk, Vol V, 1946, pp 565-579.
NLL RTS 3530
(On Loan or Purchase)

Sci-Bar Sci & Ocean
Apr 67

324,030

Erosion and Deposition on Gas Turbine Blades
Working in a Gas Containing Small Particles of
Suspended Matter, by S. Sh. Rozenberg.

RUSSIAN, per, Iz Ak Nauk SSSR Otdel Energ⁵ ~~at izdat~~
i Avtomat, No 1, 1962, pp 111-115.

NLL M 3914

Sci - Fuels & Prop
Mar 63

225,427

Special Geodetic Assignments, III. Magnetic and
Astronomical Determinations Along the Connecting
Connecting System and Along the Siberian Railroad
From Chelyabinsk to Krasnoyarsk, 114 pp.

RUSSIAN, per Ak Nauk SSSR, Otdel Fiz-Matemat Nauk,
Zapiski, Ser 8, Vol XVII, No 7, 1906, pp 1-104.

121,903
AID SIR-6281

Sci - Phys
Aug 60

121,903

Special Geodetic Assignment: Lit. General Review
of the Activities of the Guznetsov Brothers' Ex-
pedition to the Polar Urals in the Summer of 1909.
17 pp.

? In
RUSSIAN, per, Ak Nauk SSSR, Otdel fiz matemat nauk,
Vol XXVIII, No 1, 1911.

Air Info Div SIR-3069

USSR
Geogr
Oct 59

98,738

Special Geodetic Assignment: LVI. Basic
Astrocosmical Points of the Russian Polar
Expedition, 29 pp.

¹⁻
RUSSIAN, per, Ak Nauk SSSR, Otdel Fiz Matem.
nauk. Zapiski, Vol LXVI, No 2, 1911, pp 1-20.
Seriya 8, Item

Air Info Div SIR-3068

98,740

Sci - Geofiz
Oct 59

Special Geodetic Assignment: IV. Astronomical
Determinations by the Polar Urals Expedition in
the Summer of 1909, 40 pp.

RUSSIAN, par, Iz Ak Nauk SSSR, Otdel Fiz Mat Nauk,
Zapiski, Vol XXVIII, No 2, Ser 8, 1911, pp 1-17.

AID/SIR 3079

Sci - Astronomy
Nov 59

101,199

The Circulation of a Turbulent Wall Jet Along
a Solid Wall, by L. S. Abramson and Yu. A. Skovo-
rodnikov.

RUSSIAN, per, Izvest. Akad. Nauk SSSR Otd. Tekh.
Nauk. Mekh. i Mash., No 3, 1962, pp 176-177.

NIL RTS 3723

Sci-Physics
Nov 67

345,340

Iz AN, OKN 1-49 Page 110

Catalytic Condensation of
Carbon Monoxide with Olefins I.
Hydrocondensation of Carbon Monoxide
with Ethylene. Copolymer
See "NT" 63 File

Theoretic Phenomena at the Interface of Liquid Phases, by
L. I. Beliaev.

RUSSIAN, per, Izvestia Akademii Nauk SSSR, Seriya
Ginicheskaya, No 4, 1937, pp 1433-1450. CIA 9017556

ETH 5-18

Sci - Chemistry
Apr 58

61,696

The Polytherm of a Reciprocal System of Ammonium
and Potassium Chlorides and Nitrates, by A. G. Berg-
man, 16 pp.

R. Otdel Khim Nauk
RUSSIAN, per, Iz Ak Nauk SSSR, ~~Ser. Khim.~~ No 1, 1938,
pp 203-216.

SLA R-3301

Sci

Aug 59

93,533

Solubility Polytherms of Secondary and Tertiary
Potassium Orthophosphate in Water, by M. I. Ravich,
11 pr.

OTdel Khim Nauk

RUSSIAN, per, Iz Ak Nauk SSSR, ~~Sci Khim~~, No 1, 1958,
pp 137-146.

SLA R-3329

Sci

Aug 59

93,549

62-16405

Vuks, M. F. and Ioffe, V. A.
DIFFUSION SPECTRA OF TWO-COMPONENT SIL-
ICATE GLASSES (Spektry Rasseyaniya
Dvukhkomponentnykh Silikatnykh Stekol). [1962]
[19]p. (foreign text included) 5 refs.
Order from OTS or SLA \$1.60 62-16405

Trans. of Akademiya Nauk SSSR. [Otdelenie
Tekhnicheskikh Nauk]. Izvestiya, 1938, no. 3,
p. 61-69.

DESCRIPTORS: *Spectrographic analysis, *Glass,
*Silicates, Ramon spectroscopy, Sodium, Lead.

(Materials--Ceramics, TT, v. 8, no. 11)

I. Vuks, M. F.
II. Ioffe, V. A.

Office of Technical Services

Trotsky, M. V.
BY PRODUCTS OF ALKALINE FUSION OF SODIUM
BENZENESULFONATE TO PHENOL, AND THEIR
ISOLATION AND UTILIZATION. [1961] 8p.
Order from ATS \$15.00 ATS-75N49R

Trans. of Akad[emiya] Nauk SSSR. Odel[eniye]
Khim[ichesko] Nukl[eyar] Zvest[iya] 1940, no. 1,
p. 127-134.

- I. Substances: Chemical reactions
2. Phenol: Chemical reactions
1. Trotsky, M. V.
- II. ATS-75N49R
- III. Associated Technical Services, Inc.,
East Orange, N. J.

1091 9

61-2417

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 11)

Rubinshtein, A. M.
DEHYDROGENATION ON NICKEL CATALYSTS OF
DIFFERENT EXTENT OF DISPERSION. [1961] 7p.
17 refs.
Order from OTS or SLA \$1.10

61-16861

Trans. of Akademiya Nauk SSSR. Otdelenie Khim.
cheskikh Nauk. (Izvestiya), 1940, no. 1, p. 135-142.

DESCRIPTORS: *Dehydrogenation, Catalysts, *Nickel
catalysts, Cyclohexanes.

The dependence of the activity of nickel-alumina cata-
lysts upon the dispersion of nickel has been investigated
for the case of dehydrogenation of aliphatic and naph-
thenic compounds. The study was carried out with seven
preparations of the catalyst, in which the dispersion of
nickel varied from 49 to 122 Å. Activity-dispersion
isotherms were constructed for dehydrogenation of cy-
clohexane and formic acid. The dependence of the
(Chemistry--Organic, TT, v. 6, no. 6) (over)

61-16861

I. Rubinshtein, A. M.

176588

Office of Technical Services

Rubinshtein, A. M.
CATALYTIC HYDROGENATION IN THE VAPOR
PHASE AS AFFECTED BY THE DISPERSION OF THE
CATALYST. [1961] 6p. 30 refs.
Order from OTS or SLA \$1.10 61-16863

Trans. of Akademiya Nauk SSSR, Otdelenie
Khimicheskikh Nauk, Izvestiya, 1961, no. 1,
p. 144-150.

DESCRIPTORS: *Benzenes, *Carbon compounds,
*Monoxides, *Hydrogenation, *Alumina-nickel
catalysts, Chemical reactions, Catalysts, Vapors.

The reactions of hydrogenation of benzene and of carbon
monoxide to methane in the presence of nickel-alumina
catalysts of different extents of dispersion were
investigated. It was shown that the activity of the
catalysts depends upon the dispersion of the active

(Chemistry--Organic, TT, v. 6, no. 6) (over)

61-16863

L. Rubinshtein, A. M.

176590

Office of Technical Services

61-16862

Eldus, Ya. T. and Nechaeva, N. N.
EFFECT OF SOME ELECTRICAL FACTORS ON THE
CHEMICAL REACTIONS OF ETHYLENE IN HIGH
FREQUENCY CORONA DISCHARGE. [1961] 5p. 22 refs.
Order from OTS or SLA \$1.10 61-16862

I. Eldus, Ya. T.
II. Nechaeva, N. N.

Trans. of Akademiya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk. Izvestiya, 1940, no. 1, p. 153-160.

DESCRIPTORS: *Ethylenes, Chemical reactions, High
frequency, Electrical corona, Electrical properties.

176589

Experiments are reported on the effect of the wattage
and frequency of high frequency corona discharge with
damped oscillations on chemical conversions of ethyl-
ene and particularly on its dehydrogenation to acety-
lene. The wave length within 190 to 500 meters is prac-
tically without any effect. The dependence of the yields
of reaction products (acetylene, hydrogen, paraffins)
upon the power within 0.3 to 30 watts is given. (Author)
(Chemistry--Physical, TT, v. 6, no. 6)

Office of Technical Services

Favorskii, A. E.
RESEARCH ON ACETYLENE DERIVATIVES. [1961]
7p. 2 refs.
Order from OTS or SLA \$1.10 61-18024

Trans. of Akademiya Nauk SSSR, Otdelenie Khimicheskikh Nauk. Izvestiya 1940, p. 181-188.

DESCRIPTORS: *Acetylene derivatives, Synthesis, Production, Chemical industry, USSR, Rubber, Isoprene.

A general review is given of research on acetylene derivatives based on observations originally made as early as 1888 and 1900. Acetylene alcohols are formed by condensation of acetylene or vinylacetylene and ketones in the presence of anhydrous potassium hydroxide. Their polymers are good film-forming materials. Electrolytic hydrogenation of acetylene alcohols in soda solution gives olefinic alcohols which can be dehydrated (Engineering--Chemical, TT, v. 6, no. 9) (over)

61-18024

L. Favorskii, A. E.

185420

Office of Technical Services

MAKAROV, S.Z., and SHUL'GINA, M. P.
R-2858. The solubility diagram of potassium carbonate-
sodium carbonate-water and its application to the se-
paration of potassium and sodium carbonates. Dokl. Akad. Nauk SSSR, Ser. Khim., p.511-211, 1940. (21p.) 13

014

BOCHKAREV, P. F., and BERGMAN, A. G.

R-2940. Physicochemical investigation of the aqueous reciprocal system of potassium ammonium nitrates and monophosphates III. Polytherm of the reciprocal system of potassium and ammonium nitrates and monophosphates. Doklady Akad. Nauk SSSR, Ser. Khim., p. 379-95, 1940. (26p.)

BULLETIN OF THE ACADEMY OF SCIENCES OF
THE USSR. DIV. OF CHEMICAL SCIENCE. 1940.
NO. 4: [TABLE OF CONTENTS] AND SELECTED
ABSTRACTS. [1961] 4p.

Order from OTS or SLA \$1.10

61-20798

Abstract trans. of Akademiiya Nauk SSSR. Otdelenie
Khimicheskikh Nauk. Izvestiya, 1940, no. 4,
p. 493-508, 552-558, 588-589, 592-595.

DESCRIPTORS: *Chemistry, Abstracting, Periodicals,
Glow discharges, Chemical reactions, Reaction ki-
netics, Hydrogen, Carbon compounds, Monoxides,
Sulfides, Oxidation, Spectrographic analysis, Ethynyl
radicals, *Acetylene derivatives, Ketones, Alkyl rad-
icals, Vinyl radicals, Synthesis, Polymerization, Cat-
alysts, Catalysis, High pressure research, Confer-
ences.

(Chemistry, TT, v. 7, no. 7)

(over)

61-20798

- I. Title: Synthesis ...
- II. Title: Vinyl ...

Office of Technical Services

61-20797

BULLETIN OF THE ACADEMY OF SCIENCES OF
THE USSR. DIV. OF CHEMICAL SCIENCE, 1940,
NO. 5: [TABLE OF CONTENTS] AND SELECTED
ABSTRACTS. [1961] 9p. 9 refs.

Order from OTS or SLA \$1.10

61-20797

Abstract trans. of Akademlya Nauk SSSR. Otdelenie
Khimicheskikh Nauk. (Izvestiya) 1940, no. 5,
p. 601-615, 617-626, 681-689.

DESCRIPTORS: *Chemistry, Abstracting, Periodicals,
*Exchange reactions, Reaction kinetics, Hydrogen
compounds, Peroxides, Decomposition, Alloys, Cat-
alysts, Catalysis, Rubber.

Contents:

Kinetic basis of the method of isotope indicators.

I. Kinetics of exchange reactions, by S. Z. Roginskii
(Chemistry, TT, v. 7, no. 7) (over)

1. Title: Hydropolymerization
- I. Title: Kinetics ...
- II. Title: Catalytic ...

Office of Technical Services

VOLFKOVICH, S. I., BELOPOLSKII, A.P., and
LOGENOVA, A.

R-2949. The physicochemical and technological
analysis of the process of decomposition of phosphates
by means of nitric acid, with production of fertilizers.
Doklady Akad. Nauk SSSR, Ser. Khim., 1940. p.705-
24, (34p.)

Physicochemical Analysis of Fused Salt Systems, I.
Electrical Conductivity of Binary Systems of Nitrates,
Chlorides and Iodides of Sodium, Potassium, Thallium,
Mercury and Silver, by A. G. Bergman, I. M. Chagin,
22 pp.

RUSSIAN, per, Iz Ak. Nauk SSSR, Otdel Khim Nauk, No 5,
1940, pp 727-738.

Sci Trans Center RT-958
OTS TT-63-20771(27pp)
14,058

Scientific - Chemistry
OTS/DIEK

TT-63-20772

I. Barzakovskii, V. P.
II. RT-957

Barzakovskii, V. P.
THE DENSITY, VISCOSITY, ELECTRICAL CONDUCTIVITY, AND SURFACE TENSION OF SOME BINARY SALT SYSTEMS IN THE FUSED STATE [Plotnost', Vyazkost', Elektroprovodnost' i Poverkhnostnoe Nativazhenie Nekotorykh Binarnykh Solnyanykh Sistem v Rasplavlennom Sostoyanii]. [1963] [13p]

9refs
Order from OTS, SLA, or ETC \$1.60 TT-63-20772

Trans. of Akademiya Nauk SSSR, [Otdelenie Khimicheskikh Nauk], Izvestiya, 1940, no. 5, p. 825-831.
(Abstract available)

Another trans. is available from SLA as RT-957, 11p.

DESCRIPTORS: *Electrochemistry, *Fused materials, *Salts, *Potassium compounds, *Sodium compounds, *Calcium compounds, *Barium compounds, *Lead compounds, *Chlorides, Density, Viscosity, Electrical conductance, Surface tension,
(Chemistry--Physical, TT, v. 11, no. 4) (over)

Office of Technical Services

Bazhulin, P. A., Plate, A. P. and others.
OPTICAL METHOD OF INVESTIGATION OF HYDRO-
CARBONS. II. SPECTRA OF COMBINATION SCAT-
TERING OF PARAFFINS. [1961] [5]p. 6 refs.
Order from OTS or SLA \$1.10 61-16875

Trans. of Akademiya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk Investiya, 1961, no. 1, p. 13-26.

DESCRIPTORS: *Hydrocarbons, Raman spectroscopy,
Optical analysis, Gasoline, Octanes, Fuels, Chemical
industry.

An investigation of the Raman spectra of 19 paraffins is
reported using a simplified method of determination of
irradiation of the spectral lines. These hydrocarbons
include: normal pentane, 2-methylbutane, normal hexane,
2-methylpentane, 3-methylpentane, normal heptane,
2-methylhexane, 3-methylhexane, 2,2-dimethylpentane,
3-methylpentane, normal octane, 2-methylheptane,
3-methylheptane, 4-methylheptane, 3,3-dimethyl-
(Physics-Spectroscopy, TT, v. 6, no. 7) (over)

61-16875

I. Bazhulin, P. A.
II. Plate, A. P.
III. Title: Spectra...

151732

Office of Technical Services

61-16879

Eldus, Ya. T., Kazanskii, B. A., and Zelninskii, N. D.
EFFECT OF THE CARRIER FOR THE Ni-NbO-
Al₂O₃ CATALYST ON THE SYNTHESIS OF LIQUID
HYDROCARBONS UNDER ATMOSPHERIC PRESSURE.
[1961] Sp. 8 refs.

Order from OTS or SLA \$1.10

61-16879

Trans. of Akademiya Nauk SSSR, Otdelenie Khimicheskikh Nauk, Izvestiya, 1961, no. 1, p. 27-33.

DESCRIPTORS: *Catalysts, Synthesis, *Hydrocarbons,
*Gasoline, *Nickel catalysts, Carbon compounds,
Monoxides, Hydrogen, Chemical reactions

Of a number of Soviet kieselguhrs, the advantages of two samples from Caucasus were established. These samples were used after removal of iron compounds from them, which was not necessary in all cases, however. Igniting of the carrier is also superfluous. A third sample of diatomaceous earth gave the highest extent of unsaturation of the obtained gasoline. The (Materials--Fuels, TT, v. 6, no. 7) (over)

I Eldus, Ya. T.
II Kazanskii, B. A.
III Zelninskii, N. D.

Office of Technical Services

Eldus, Ya. T., Fedichkina, T. L. and others.
LOWERING THE REDUCTION TEMPERATURE OF
CATALYSTS FOR SYNTHESIS OF LIQUID HYDRO-
CARBONS FROM CARBON MONOXIDE AND HYDRO-
GEN UNDER ATMOSPHERIC PRESSURE. [1961] 7p.
10 refs.
Order from OTS or SLA \$1.10 61-16884

Trans. of ~~Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk~~ Izvestiya, 1961, no. 1, p. 34-40.

DESCRIPTORS: Temperature, *Catalysts, Synthesis,
*Hydrocarbons, Carbon compounds, Monoxides,
Hydrogen, *Gasoline, Nickel catalysts.

Several nickel and cobalt catalysts used for synthesis of liquid hydrocarbons from carbon monoxide and hydrogen were investigated to determine whether the temperatures of their reduction could be lowered. The nickel catalysts obtained from oxalates and formates.
(Materials--Fuels, TT, v. 6, no. 6) (over)

61-16884

I. Eldus, Ya. T.
II. Fedichkina, T. L.

176592

Office of Technical Services